

(12)特許協力条約に基づいて公開された国際出願

(19) 世界知的所有権機関  
国際事務局(43) 国際公開日  
2003年7月24日 (24.07.2003)

PCT

(10) 国際公開番号  
WO 03/060968 A1(51) 国際特許分類: H01L 21/205,  
21/22, C23C 16/458, 16/46, H01L 21/68

(21) 国際出願番号: PCT/JP02/09512

(22) 国際出願日: 2002年9月17日 (17.09.2002)

(25) 国際出願の言語: 日本語

(26) 国際公開の言語: 日本語

(30) 優先権データ:  
特願2001-397884  
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(81) 指定国 (国内): CN, KR, SG, US.

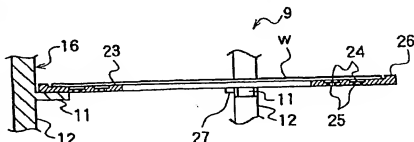
(84) 指定国 (広域): ヨーロッパ特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

添付公開書類:  
— 国際調査報告書

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイドンスノート」を参照。

(54) Title: BOAT FOR HEAT TREATMENT AND VERTICAL HEAT TREATMENT EQUIPMENT

(54) 発明の名称: 熱処理用ボート及び縦型熱処理装置



(57) Abstract: A boat for heat treatment characterized by comprising a plurality of columns, a plurality of pawl parts formed in respective columns at a specified interval in the height direction, a plurality of supporting plates each having a plane for mounting an article being treated and fixed, in multi-stage, between the plurality of columns through the pawl part, and grooves and through holes made in the plane for mounting the article. Since grooves and

through holes are made in the plane for mounting the article, an air layer is formed between the plane of the supporting plate for mounting the article and the article and thereby the article can be prevented from sticking. Consequently, slip due to sticking of the article can be prevented even at a high-temperature heat treatment.

[続表有]

WO 03/060968 A1

## INTERNATIONAL SEARCH REPORT

 International application No.  
 PCT/JP02/09512

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> H01L21/205, H01L21/22, C23C16/458, C23C16/46, H01L21/68

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> H01L21/205, H01L21/22, C23C16/458, C23C16/46, H01L21/68

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 11-260746 A (Sumitomo Metal Industries, Ltd.), 24 September, 1999 (24.09.99), Claims 2, 3; Figs. 1, 2 (Family: none)	1-13
Y	WO 00/19502 A1 (S.G. Engineering Kabushiki Kaisha), 06 April, 2000 (06.04.00), Claim 5; page 7, lines 6 to 7; Fig. 4 & KR 2001075412 A	1-13
Y	JP 11-097362 A (Fujitsu Ltd.), 09 April, 1999 (09.04.99), Claim 1; Fig. 1 (Family: none)	1-13

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents:	"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 04 December, 2002 (04.12.02)	Date of mailing of the international search report 17 December, 2002 (17.12.02)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/09512

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2000-269150 A (Toshiba Ceramics Co., Ltd.), 29 September, 2000 (29.09.00), Claim 4; Par. Nos. [0021], [0033] (Family: none)	2
Y	JP 10-050626 A (Mitsui Engineering & Shipbuilding Co., Ltd.), 20 February, 1998 (20.02.98), Fig. 1 (Family: none)	4-6, 10-12
Y	WO 01/18856 A1 (Mitsubishi Materials Silicon Kabushiki Kaisha), 15 March, 2001 (15.03.01), Fig. 1 & CN 1321333 A & KR 2001099775 A	4-6, 10-12
Y	JP 11-031639 A (Kokusai Electric Co., Ltd.), 02 February, 1999 (02.02.99), Claim 1; Fig. 1 (Family: none)	7-12